

Frame 1	M	R	V	P	A	Q	L	L	G	L	L	L	L	W	L	P	G	A	R	
	ATG	AGG	GTC	CCC	GCT	CAG	CTC	CTG	GGG	CTC	CTG	CTG	CTC	TGG	CTC	CCA	GGT	GCA	CGA	
			9			18			27			36			45			54		
C	E	S	A T	L	T	O	P	P	S	V	S	G	A	P	G	Q	K	V	T	I
TGT	GAG	TCT	GTC	CTG	ACA	CAG	CCG	CCC	TCA	GTG	TCT	GGG	GCC	CCA	GGG	CAG	AAG	GTC	ACC	ATC
	63		72			81			90			99			108			117		
S	C	T	G	S	T	S	N	I	G	G	Y	D	L	H	W	Y	O	O	L	P
TCG	TGC	ACT	GGG	AGC	TAC	TCC	AAC	ATT	GGA	GGT	TAT	GAT	CTA	CAT	TGG	TAC	CAG	CAG	CTC	CCA
	126		135			144			153			162			171			180		
G	T	A	P	K	L	L	I	Y	D	I	N	K	R	P	S	G	I	S	D	R
GGA	ACG	GCC	CCC	AAA	CTC	CTC	ATC	TAT	GAC	ATT	AAC	AAG	CGA	CCC	TCA	GGA	ATT	TCT	GAC	CGA
	189			198			207			216			225			234			243	
F	S	G	S	K	S	G	T	A	A	S	L	A	I	T	G	L	Q	T	E	D
TTC	TCT	GGC	TCC	AAG	TCT	GGT	ACC	ACG	GCC	TCC	CTG	GCC	ATC	ACT	GGG	CTC	CAG	ACT	GAG	GAT
	252			261			270			279			288			297			306	
E	A	D	Y	Y	C	Q	S	Y	D	S	S	L	N	A	Q	V	F	G	G	G
GAG	GCT	GAT	TAT	TAC	TGC	CAG	TCC	TAT	GAC	AGC	AGC	CTG	AAT	GCT	CAG	GTA	TTC	GGA	GGA	GGG
	315			324			333			342			351			360			369	
T	R	L	T	V	L	G	Q	P	K	A	A	P	T A	V	T	L	F	P	P	S
ACC	CGG	CTG	ACC	GTC	CTA	GGT	CAG	CCC	AAG	GCT	GCC	CCC	ACG	GTC	ACT	CTG	TTC	CCG	CCC	TCC
	378			387			396			405			414			423			432	
S	E	E	L	Q	A	N	K	A	T	L	V	C	L	I	S	D	F	Y	F	G
TCT	GAG	GAG	CTT	CAA	GCC	AAC	AAG	GCC	ACA	CTG	GTG	TGT	CTC	ATA	AGT	GAC	TTC	TAC	CCG	GGA
	441			450			459			468			477			486			495	
A	V	T	V	A	W	K	A	D	S	S	P	V	K	A	G	V	E	T	T	T
GCC	GTG	ACA	GTG	GCC	TGG	AAG	GCA	GAT	AGC	AGC	CCC	GTC	AAG	ACG	GGA	GTG	GAG	ACC	ACC	ACA
	504			513			522			531			540			549			558	
P	S	K	Q	S	N	N	K	Y	A	A	S	S	Y	L	S	L	T	P	E	Q
CCC	TCC	AAA	CAA	AGC	AAC	AAC	AAG	TAC	GCG	GCC	AGC	AGC	TAC	CTG	AGC	CTG	ACG	CCT	GAG	CAG
	567			576			585			594			603			612			621	
W	K	S	H	R	S	Y	S	C	Q	V	T	H	E	G	S	T	V	E	K	T
TGG	AAG	TCC	CAC	AGA	AGC	TAC	AGC	TGC	CAG	GTG	ACG	CAT	GAA	GGG	AGC	ACC	GTG	GAG	AAG	ACA
	630			639			648			657			666			675			684	
V	A	P	T	E	C	S														
GTG	GCC	CCT	ACA	GAA	TGT	TCA	TGA													
	693			702			711													

FIG. 5A